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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/661,842	09/12/2003		Edward William Sheehan	8545		
7	590	03/29/2004		EXAMINER		
Edward W. Sl				SMITH, JO	HNNIE L	
Chem-Space A 655 William Pi		es		ART UNIT	PAPER NUMBER	
Pittsburgh, PA 15238				2881		
				DATE MAIL ED: 03/29/200	DATE MAILED: 03/29/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)			
Office Action Summary		10/661	842	SHEEHAN ET AL.			
		Examin	er	Art Unit			
		Johnnie	L Smith II	2881			
The MAIL Period for Reply	ING DATE of this commun	ication appears on t	he cover sheet with the d	correspondence add	lress		
THE MAILING D - Extensions of time rr after SIX (6) MONTH - If the period for reply - If NO period for reply - Failure to reply within Any reply received b	STATUTORY PERIOD F NATE OF THIS COMMUN hay be available under the provisions 15 from the mailing date of this come specified above is less than thirty (3 is specified above, the maximum stone the set or extended period for reply by the Office later than three months adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no nunication. s0) days, a reply within the s atutory period will apply and will, by statute, cause the a	event, however, may a reply be tir tatutory minimum of thirty (30) day will expire SIX (6) MONTHS from polication to become ABANDONE	mely filed /s will be considered timely. In the mailing date of this cor ID (35 U.S.C. § 133).			
Status							
1) Responsiv	re to communication(s) file	ed on 12 Septembe	r 2003.				
2a) ☐ This action		2b)⊠ This action is					
3) Since this	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Clair	ms						
4a) Of the 5) ☐ Claim(s) _ 6) ☑ Claim(s) <u>1</u> 7) ☐ Claim(s) _ 8) ☐ Claim(s) _	-19 is/are pending in the above claim(s) is/a is/are allowed19 is/are rejected is/are objected to are subject to restrict	re withdrawn from o					
Application Papers	;						
10) The drawir Applicant n Replaceme	cation is objected to by the objected to by the object of	: a) ☐ accepted or ection to the drawing(s g the correction is req) be held in abeyance. Se uired if the drawing(s) is ob	e 37 CFR 1.85(a). pjected to. See 37 CF			
Priority under 35 U	.S.C. § 119						
a) All b) [1. Cer 2. Cer 3. Cop app	gment is made of a claim Some * c) None of: tified copies of the priority tified copies of the priority ties of the certified copies lication from the Internation ached detailed Office action	documents have be documents have be of the priority documents Bureau (PCT R	een received. een received in Applicat ments have been receiv kule 17.2(a)).	ion No ed in this National S	Stage		
	son's Patent Drawing Review (l sure Statement(s) (PTO-1449 o		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate	-152)		

Art Unit: 2881

DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-19 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-21 of copending Application No. 10/688,021 in view of US patent 6,107,628 (Smith et al). Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1-19 only differ from claims 1-21 of the above copending application in that the limitation wherein a stratified body consisting of a plurality of elements, said elements comprise alternating layers of metal electrodes and insulating material, each said electrode having successively

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smaller apertures wherein said apertures form an ion-funnel having an entry at largest aperture of first metal electrode and an exit at smallest aperture of last metal electrode, said smallest aperture forming inlet aperture into said analytical apparatus. Smith teaches such limitations in the above referenced US patent (column 8 line 62-column 9 line 15). It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the teachings of Smith to have an ion funnel wherein the size and shape of the entry and exit apertures are defined as such that the acceptance region is larger than the emmitance region for the purpose of controlling the size and shape of the beam or cloud of charged particles directed through the ion funnel (column 4 lines 5-57).

Conclusion

The prior art made of record and not relied upon is considered pertinent to 3. applicant's disclosure. US patents; 6,583,408 (Smith et al), 5,986,259 (Hirabayashi et al), 5,747,799 (Frazen et al), US patent publications 2002/0011560 (Sheenan et al) and 2003/0197121 (Turecek et al). All of the cited US prior art references contain art similar to that being claimed by applicant, more specifically, apparatuses and methods for directing ions and other charged particles.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Johnnie L Smith II whose telephone number is 571-272-2481. The examiner can normally be reached on Monday-Thursday 7-4 P.M. and Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R Lee can be reached on 571-272-2477. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Johnnie L Smith II Examiner Art Unit 2881

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